

IN THE SPECIFICATION:

Page 3, lines 4-10:

To attain the object, the invention provides essentially that the substrate is comprised of a framework or a segment of a framework made of carbon fibers and/or SiC fibers, that the fibers are embedded in a matrix made of carbon and/or SiC, and that the substrate has a porosity p of $5\% \leq p \leq 95\%$, especially $10\% \leq p \leq 95\%$, and a density ρ of $0.1 \text{ g/cm}^3 \leq \rho \leq 3.0 \text{ g/cm}^3$. Especially, the substrate material is stabilized by means of vapor infiltration and/or fluid impregnation. The framework may be comprised of felt, ~~non-woven material~~ fleece and/or fabric layers.

Page 4, lines 22-28:

In this, felt, ~~non-woven material~~ fleece, and fabric layers can be used as the framework, which are comprised of or contain carbon or can be converted to carbon. This can be achieved, for example, via high-temperature carbonization. The framework is then stabilized via vapor infiltration (CVI) and/or fluid impregnation. In this, the fibers of the framework can be treated such that a sheathing of pure carbon or pure silicon carbide is created. It is also possible to apply a series of coatings of one or more carbon layers and/or one or more silicon carbide layers to the fibers. A graduated transition from carbon to silicon carbide is also possible.

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According to the invention, the substrate 10 is comprised of a framework formed from carbon and/or silicon carbide fibers. Felt, ~~non-woven material~~ fleece or fabric layers can be used as the material. If these are not present in carbon, a carbonization step can be performed beforehand. This is then followed by a stabilization of the fibers 16, 18 via vapor infiltration (CVI) with pyrocarbon (PyC) and/or silicon carbide (SiC). An impregnation with corresponding fluid substances may also be performed.